RUTGERS
Organics

August 7, 2009

VIA CERTIFIED MAIL

Mary Logan
U S. EPA Region V (SR-6J)
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Chicago, IL 60604-3590

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2110 East Aurora Road
Twinsburg, OH 44087

Remedial Response Section Manager
Ohio EPA - DERR
P O. Box 1049
Lazarus Government Center Office
122 South Front Street
Columbus, OH 43216-1049

Re: JULY 2009 MONTHLY REPORT
RI/FS & REMEDIAL DESIGN & REMOVAL ACTION
NEASE CHEMICAL SITE
SALEM, OHIO

In accordance with Paragraph X E of the Administrative Order by Consent regarding a Remedial Investigation/Feasibility Study (RI/FS) of the Nease Chemical Site in Salem, Ohio, attached is a copy of the July 2009 RI/FS Progress Report This report also includes the monthly progress report for the remedial design (OU-2) in accordance with Paragraph X of the Administrative Order on Consent, effective as of May 10, 2006

Additionally, in accordance with Paragraph 14 of the Administrative Order by Consent, signed December 17, 1993, attached is a copy July 2009 Removal Action Progress Report.

Sincerely,

Rainer Domalski

Dr. Rainer F Domalski
Site Coordinator

Enclosures

cc: M. Hardy/Heidi Goldstein – Thompson Hine
Steve Finn – Golder Associates, Inc.

080709

201 Struble Road, State College, PA 16801
Phone: 814-231-9200, Fax. 814-239-1567

NEASE CHEMICAL SITE, SALEM, OHIO
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
REMEDIAL DESIGN (OU-2)
MONTHLY PROGRESS REPORT
JULY 2009

1. INTRODUCTION

This progress report has been prepared in accordance with Paragraph XE of the Administrative Order of Consent (AOC) regarding a Remedial Investigation/Feasibility Study (RI/FS) and Paragraph X of the Administrative Order on Consent regarding the Remedial Design (RD/OU-2) of the Nease Chemical Site in Salem, Ohio. The report summarizes the major RI/FS and RD actions during the month along with investigation results and any problems encountered in the project. Activities planned for next month are also presented.

2 SUMMARY OF ACTIVITIES PERFORMED

2.1 PROJECT ACTIVITY SUMMARY

The activities that were initiated and/or completed during the month are described All activities were performed in accordance with the detailed protocol provided in the approved Work Plan.

2.2 FIELDWORK

2.2.1 RI/FS

None.

2 2.2 PDI/RD (OU-2)

In June/July 2009 additional PDI fieldwork was conducted including mirex sampling in surface soil, NZVI-injection test, DNAPL and Southeastern Plume delineation. The samples taken get currently analyzed and validated. The results will be report in a separate report to the agencies. Also surface structures of 6 monitoring wells were repair.

2.3 Reports

2.3.1 RI/FS

None.

2.3.2 RD (OU-2)

- Prepare addendum to revised Vapor Intrusion Report including the results of vapor intrusion sampling in a residential home.
- Prepare Remedial Design Workplan for OU-2.

2.3.3 RD (OU-3)

- ROC negotiated an Administrative Consent Order (ACO) for the OU-3 Pre-Design including a Statement of Work with US EPA Region V ACO was signed by both parties and effective as of June 30, 2009.
- As required in Section XXVI of the above ACO, financial assurance was establish as of July 8, 2009.
- Prepare PDI workplan for OU-3 activities by the end of August 2009.

2.4 MEETINGS

None.

3 VARIATIONS FROM THE APPROVED WORK PLAN

None.

4 RESULTS OF SAMPLING, TESTS AND ANALYSES

Results from sampling events were and will be provided to the agencies in specific reports.

5 PROJECT SCHEDULE

The current Work Plan schedule identifies completion and target dates for project activities. Those scheduled to occur over the next several months include:

- Finalize OU-2 PDI work incl. Technical Memoranda.
- Prepare OU-2 RD workplan
- Prepare OU-3 PDI workplan.

6 DIFFICULTIES ENCOUNTERED AND ACTION TAKEN TO RESOLVE PROBLEMS

No significant difficulties were encountered.

7 PERSONNEL CHANGES

None

8 ANTICIPATED PROJECT ACTIVITIES FOR AUGUST 2009

- Monthly Progress Report July 2009
- RD (OU-2/3)
    - Analysis of samples taken during Mirex surface soil sampling, NZVI-Injection test, further DNAPL investigation, and further Southeastern Plume delineation.

- Monitoring after the NZVI-Injection.
- Baseline Technical Memorandum Report –
  - Response to agency recommendations and considerations and for implementation of interim measures for the removal of NAPL at TW06-21.
  - Submit letters to adjacent property owner's presenting the sampling results and boring logs for monitoring wells installed in their property.
  - Submit addendum to Revised Vapor Intrusion Report.

TABLE 1
NEASE CHEMICAL SITE, SALEM, OHIO
RI/FS AND RD (OU-2) SCHEDULE

DATE	TASK/ACTIVITY/DELIVERABLE/MILESTONE	
	RI/FS	**RD (OU-2)**
	Documentation of the Site Activities through July 31, 2004 can be reviewed in the July 2004 Monthly Progress Report Documentation of the Site Activities from August 1, 2004 through December 31, 2008 can be reviewed in the December 2008 Monthly Progress Report	
Jan. 9, 2009	Submit Monthly Progress Report	
Jan. 29, 2009		Submit Utility Map Submit Proposal for Additional Mirex surface soil sampling
Feb. 9, 2009	Submit Monthly Progress Report	
Feb. 10, 2009		Submit Revised Vapor Instrusion Report and Response Letter to Agencies' Comments to Baseline Technical Memorandum
Mar 19, 2009	Submit Monthly Progress Report	
April 9, 2009	Submit Monthly Progress Report	
May 21, 2009	Submit Monthly Progress Report	
June 8, 2009	Submit Monthly Progress Report	
July 9, 2009	Submit Monthly Progress Report	
Aug. 7, 2009	Submit Monthly Progress Report	

NEASE CHEMICAL SITE, SALEM, OHIO
REMOVAL ACTION
MONTHLY PROGRESS REPORT
JULY 2009

1.0 INTRODUCTION

This progress report has been prepared in accordance with Paragraph 14 of the "Order" section of the Administrative Order by Consent (AOC) Docket No. V-W-94-C-212, effective November 17, 1993 regarding a Removal Action for the Nease Chemical Site in Salem, Ohio. The report summarizes the major activities during the month along with investigation results and any problems encountered on the project. Activities planned for next month are also presented.

2.0 SUMMARY OF ACTIVITIES PERFORMED

2.1 PROJECT ACTIVITY

The activities that were initiated and/or completed during this month are described below Activities were performed in accordance with the Removal Action AOC.

Golder evaluated the performance of the groundwater treatment system and the carbon change-out schedule. Based on the close review of the monthly sampling results, the carbon change-out can be conducted on a 4-month cycle The last change-out occurred at the end of June 2009.

2.2 WORK PLAN PREPARATION/REPORTS

None

2.3 FIELDWORK

2 3.1 SITE INSPECTIONS

The results of the monthly site inspection carried out at the site on July 30, 2009 are shown in Attachment 1.

2.3.2 MONTHLY WATER LEVEL MEASUREMENTS

The next water level monitoring in wells will ne performed in October 2009.

2.3.3 TREATMENT PLANT OPERATION

The treatment plant operated mostly normal throughout the month.

2.4.1.1 MEETINGS

None

3.0 VARIATIONS FROM THE APPROVED REMOVAL ACTION WORK PLAN

None

4.0 RESULTS OF INSPECTIONS, ENVIRONMENTAL SAMPLING, TESTS AND ANALYSES

Water monitoring samples were collected from the treatment plant on July 6, 2009 (Attachments 2). The next acute toxicity evaluation is scheduled for November 2009.

5.0 PROJECT SCHEDULE

None.

6.0 DIFFICULTIES ENCOUNTERED AND ACTION TAKEN TO RESOLVE PROBLEMS

None

7.0 PERSONNEL CHANGES

None.

8.0 TYPES AND QUANTITIES OF REMOVED MATERIALS

For the period from July 1 through 31, 2009 the following material was removed:

- 10,600 gallons of leachate and/or backwash water were disposed off-site during this month.
- Approximately 88,454 gallons were pumped from Leachate Collection System 1 (LCS-1) (total for LCS-1 =23,159,523 gal).
- 8,021 gallons were pumped from Leachate Collection System 2 (LCS-2) (total for LCS-2 = 1,836,984 gal).
- No water was pumped from Pond 1 (total for the pond = 1,034,375 gallons).
- Approximately 12 pounds of organic compounds were removed during pumping (estimate based on average VOC/SVOC concentrations for each source).

9.0 ANTICIPATED PROJECT ACTIVITIES FOR AUGUST 2009

Removal Action activities scheduled for the upcoming month include on-going implementation of the approved Removal Action Work Plan involving:

- Collection of groundwater from the existing collection systems LCS-1, LCS-2 and Pond 1.

- Monthly Progress Report for July 2009

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TABLE 1
NEASE CHEMICAL SITE, SALEM, OHIO
REMOVAL ACTION SCHEDULE

DATE	TASK/ACTIVITY/DELIVERABLE/MILESTONE
	Documentation of the Site Activities through July 31, 2004 can be reviewed in the July 2004 Monthly Progress Report Documentation of the Site Activities August 1, 2004 through December 31, 2008 can be reviewed in the December 2008 Monthly Progress Report
Jan. 9, 2009	Submit Monthly Progress Report
Feb. 6, 2009	Submit Monthly Progress Report
Mar. 19, 2009	Submit Monthly Progress Report
April 9, 2009	Submit Monthly Progress Report
May 21, 2009	Submit Monthly Progress Report
June 8, 2009	Submit Monthly Progress Report
July 9, 2009	Submit Monthly Progress Report
Aug. 7, 2009	Submit Monthly Progress Report

ATTACHMENT 1

RESULTS OF MONTHLY SITE INSPECTION
NEASE CHEMICAL SITE, SALEM, OHIO
JULY 2009

SITE INSPECTION FORM
RUETGERS-NEASE CORPORATION
Nease Site, Salem, Ohio

Date of Inspection: 7-30-09

Entry Time: 1400 HRS. Exit Time: 1600 HRS

Weather: PARTLY CLOUDY 75°

Inspector's Name: DENNIS L. LANE

Inspector's Company: Howells and Baird, Inc.

INSPECTION RESULTS

SPECIFIC OBSERVATIONS: Structures

(Responses: S = Satisfactory U = Unsatisfactory Yes/No Levels Measured in Feet, N/A = Not Applicable)

	Pump	Quick Connect	Water Level	Berm Erosion	Visible Leakage
Leachate Collection System 1 (LCS-1)	S	S	9.12	N/A	No
Leachate Collection System 2 (LCS-2)	S	S	11.99	N/A	No
Pond 1 Pumphouse	S	S	10.00	N/A	No
Pond 1 Berm	N/A	N/A	N/A	No	No
Pond 2 Embankment	N/A	N/A	N/A	No	No
Exclusion Area A Embankment	N/A	N/A	N/A	No	No
Storage Tank	N/A	S	2.48	N/A	No
Other (specify)					

SPECIFIC OBSERVATIONS: Sediment Barriers

Condition of Sediment Barriers

Barrier ID	Fabric Intact?	By Passing Evident?	Is Maintenance Necessary?
Sediment Control Structure 1	YES	No	No
Sediment Control Structure 2	YES	No	No
Fabric Barrier 2	YES	No	No
Fabric Barrier 3	YES	No	No
Fabric Barrier 4	YES	No	No
Fabric Barrier 5	YES	No	No
Fabric Barrier 8	YES	No	No
Fabric Barrier 9	YES	No	No
Fabric Barrier 10	YES	No	No
Rock Barrier 1	YES	No	No
Rock Barrier 2	YES	No	No
Pond 7 - North	YES	No	No
Pond 7 - South	YES	No	No

SPECIFIC OBSERVATIONS: Seeps (if present, use more forms, as necessary)

Seep ID (yr-month-#)	Located on Map	Areal Extent (ft 2)	Magnitude (flow?, ponding?)
94-7-1	YES	20	NON-FLOWING SEEP
96-8-2	YES	20	NON-FLOWING SEEP

Note Seep ID # equal the "nth' observed seep during the yr-month in question

ADDITIONAL OBSERVATION OR REMARKS:

Inspector's Name: DENNIS L. LANE

Inspector's Signature: Dennis L. Lane

Date: 7-30-09

ATTACHMENT 2

WATER SAMPLING RESULTS – JULY 6, 2009
NEASE CHEMICAL SITE, SALEM, OHIO

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. SALEM, OHIO SITE

SALEM, OHIO SITE

Lot #: A9G070133

Dr. Rainer Domalski

Rutgers Organics Corporation
201 Struble Road
State College, PA 16801

TESTAMERICA LABORATORIES, INC.

Kenneth J. Kuzior
Project Manager

July 29, 2009

SAMPLE SUMMARY

A9G070133

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LF4RL	001	LGAC 2-3-7-6-09	07/06/09	13:30
LF4RP	002	TRIP BLANK	07/06/09	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

TestAmerica Laboratory location. _____
Regulatory program. ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

Client Contact			
Company Name: RUTGERS ORGANICS CORP.	Client Project Manager: DR. RAINER DOMALSKI	Site Contact: DENNY LANE	Lab Contact.
Address: 201 STRUBLE ROAD	Telephone: (814) 231-9200	Telephone: (330) 332-4834	Telephone:
City/State/Zip: STATE COLLEGE, PA. 16801	Email:		
Phone: (814) 231-9200		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: SALEM, OHIO SITE	Method of Shipment/Carrier: FED EX		
Project Number:	Shipping/Tracking No:		
PO#			

COC No: 1 of 1 COCs

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other	Preservation: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other	Filtered	Sample (Y/N)	Analyses: MIREX	SVOC's	VOC's	Sample Specific Notes / Special Instructions.
LGAC 2-3-7-6-09	7-6-09	1330		X									X		Y	G	2	2		
LGAC 2-3-7-6-09	7-6-09	1330		X						X					Y	G			3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
DENNY LANE	RUTGERS ORGANICS	7-6-09 / 1500 HRS		TAL	7-7-09 9:15
Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company	Date/Time

TAL-0018 (1008)

North Canton

Rutgers Organics Corporation

Client Sample ID: LGAC 2-3-7-6-09

GC/MS Volatiles

Lot-Sample #...: A9G070133-001	**Work Order #...:** LF4RL1AD	**Matrix.....:** WG	
Date Sampled...: 07/06/09 13:30	**Date Received..:** 07/07/09		
Prep Date.....: 07/09/09	**Analysis Date..:** 07/09/09		
Prep Batch #...: 9191266			
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL	
	Method.....: SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	10	ug/L
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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Rutgers Organics Corporation

Client Sample ID: LGAC 2-3-7-6-09

GC/MS Volatiles

Lot-Sample #...: A9G070133-001 **Work Order #...:** LF4RL1AD **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	91	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

Rutgers Organics Corporation

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A9G070133-002	**Work Order #...:** LF4RP1AA	**Matrix.....:** WQ	
Date Sampled...: 07/06/09	**Date Received..:** 07/07/09		
Prep Date.....: 07/09/09	**Analysis Date..:** 07/09/09		
Prep Batch #...: 9191266			
Dilution Factor: 1	**Initial Wgt/Vol:** 5 mL	**Final Wgt/Vol..:** 5 mL	
	Method.....: SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**2.3 J**	**10**	**ug/L**
Benzene	ND	1.0	ug/L
Bromobenzene	ND	1.0	ug/L
Bromochloromethane	ND	1.0	ug/L
Bromodichloromethane	ND	1.0	ug/L
Bromoform	ND	1.0	ug/L
Bromomethane	ND	1.0	ug/L
2-Butanone	ND	10	ug/L
n-Butylbenzene	ND	1.0	ug/L
sec-Butylbenzene	ND	1.0	ug/L
tert-Butylbenzene	ND	1.0	ug/L
Carbon tetrachloride	ND	1.0	ug/L
Chlorobenzene	ND	1.0	ug/L
Dibromochloromethane	ND	1.0	ug/L
Chloroethane	ND	1.0	ug/L
Chloroform	ND	1.0	ug/L
Chloromethane	ND	1.0	ug/L
2-Chlorotoluene	ND	1.0	ug/L
4-Chlorotoluene	ND	1.0	ug/L
1,2-Dibromoethane	ND	1.0	ug/L
Dibromomethane	ND	1.0	ug/L
1,2-Dichlorobenzene	ND	1.0	ug/L
1,3-Dichlorobenzene	ND	1.0	ug/L
1,4-Dichlorobenzene	ND	1.0	ug/L
Dichlorodifluoromethane	ND	1.0	ug/L
1,1-Dichloroethane	ND	1.0	ug/L
1,2-Dichloroethane	ND	1.0	ug/L
cis-1,2-Dichloroethene	ND	1.0	ug/L
trans-1,2-Dichloroethene	ND	1.0	ug/L
1,1-Dichloroethene	ND	1.0	ug/L
1,2-Dichloropropane	ND	1.0	ug/L
1,3-Dichloropropane	ND	1.0	ug/L
2,2-Dichloropropane	ND	1.0	ug/L
cis-1,3-Dichloropropene	ND	1.0	ug/L
trans-1,3-Dichloropropene	ND	1.0	ug/L
1,1-Dichloropropene	ND	1.0	ug/L
Ethylbenzene	ND	1.0	ug/L
Isopropylbenzene	ND	1.0	ug/L

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Rutgers Organics Corporation

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A9G070133-002 **Work Order #...:** LF4RP1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS
p-Isopropyltoluene	ND	1.0	ug/L
Methylene chloride	ND	1.0	ug/L
n-Propylbenzene	ND	1.0	ug/L
Styrene	ND	1.0	ug/L
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L
Tetrachloroethene	ND	1.0	ug/L
Toluene	ND	1.0	ug/L
1,1,1-Trichloroethane	ND	1.0	ug/L
1,1,2-Trichloroethane	ND	1.0	ug/L
Trichloroethene	ND	1.0	ug/L
Trichlorofluoromethane	ND	1.0	ug/L
1,2,3-Trichloropropane	ND	1.0	ug/L
1,2,4-Trimethylbenzene	ND	1.0	ug/L
1,3,5-Trimethylbenzene	ND	1.0	ug/L
Vinyl chloride	ND	1.0	ug/L
m-Xylene & p-Xylene	ND	2.0	ug/L
o-Xylene	ND	1.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	86	(74 - 116)

NOTE(S):

J Estimated result Result is less than RL

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A9G070133 **Work Order #...:** LGATR1AA **Matrix.....:** WATER
MB Lot-Sample #: A9G100000-266

Prep Date.....: 07/09/09 **Final Wgt/Vol..:** 5 mL
Analysis Date..: 07/09/09 **Prep Batch #...:** 9191266
Dilution Factor: 1 **Initial Wgt/Vol:** 5 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A9G070133 **Work Order #...:** LGATR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	87	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

Rutgers Organics Corporation

Client Sample ID: LGAC 2-3-7-6-09

GC/MS Semivolatiles

Lot-Sample #...: A9G070133-001	**Work Order #...:** LF4RL1AA	**Matrix.....:** WG	
Date Sampled...: 07/06/09 13:30	**Date Received..:** 07/07/09		
Prep Date.....: 07/07/09	**Analysis Date..:** 07/09/09		
Prep Batch #...: 9188246			
Dilution Factor: 1	**Initial Wgt/Vol:** 1040 mL	**Final Wgt/Vol..:** 2 mL	
	Method.....: SW846 8270C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
Dimethyl phthalate	ND	10	ug/L
Fluorene	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
4-Methylphenol	ND	10	ug/L
Naphthalene	ND	10	ug/L
Phenanthrene	ND	10	ug/L
Phenol	ND	10	ug/L
Pyrene	ND	10	ug/L
Phenyl sulfone	ND	2.0	ug/L
3,4-Dichloronitrobenzene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzo(ghi)perylene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Butyl benzyl phthalate	ND	10	ug/L
Chrysene	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Di-n-butyl phthalate	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(27 - 111)
2-Fluorobiphenyl	62	(28 - 110)
Terphenyl-d14	73	(37 - 119)
Phenol-d5	22	(10 - 110)
2-Fluorophenol	39	(10 - 110)
2,4,6-Tribromophenol	58	(22 - 120)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A9G070133 Work Order #...: LF47H1AA Matrix.....: WATER
MB Lot-Sample #: A9G070000-246

Prep Date.....: 07/07/09 Final Wgt/Vol..: 2 mL
Analysis Date..: 07/09/09 Prep Batch #...: 9188246
Dilution Factor: 1 Initial Wgt/Vol: 1000 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Phenyl sulfone	ND	2.0	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,4-Dichloronitrobenzene	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58	(27 - 111)
2-Fluorobiphenyl	56	(28 - 110)
Terphenyl-d14	50	(37 - 119)
Phenol-d5	31	(10 - 110)
2-Fluorophenol	44	(10 - 110)
2,4,6-Tribromophenol	52	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results

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Analytical Report

Test America Laboratories

MPI Research Report: L0018484

Testing Laboratory

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Requester

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Test America Laboratories
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Analytical Report

Client ID: LGAC 2-3-7-6-09

Lab ID: L0018484-0001

PARAMETER	UNITS	RESULT		LIMIT OF QUANTITATION	TEST METHOD	TEST DATE	ANALYSTS
PESTICIDE ANALYSIS							
KEPONE	ug/L	U	0.042	0.042	SOP 6.1	22-Jul-09	AEC & RZ
PHOTOMIREX	ug/L	U	0 006	0.006	SOP 6.1	22-Jul-09	AEC & RZ
MIREX	ug/L	U	0 002	0 002	SOP 6.1	22-Jul-09	AEC & RZ

TestAmerica
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ANALYTICAL REPORT

SALEM, OHIO SITE

Lot #: A9G070193

Dr. Rainer Domalski

Rutgers Organics Corporation
201 Struble Road
State College, PA 16801

TESTAMERICA LABORATORIES, INC.

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Project Manager
7/21/2009 12:00 PM

July 20, 2009

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ACCREDITED IN ACCORDANCE WITH nelac

SAMPLE SUMMARY

A9G070193

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
LF5C3	001	AGAC 1-2-7-6-09	07/06/09	13:00

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages
- All calculations are performed before rounding to avoid round-off errors in calculated results
- Results noted as "ND" were not detected at or above the stated limit
- This report must not be reproduced, except in full, without the written approval of the laboratory
- Results for the following parameters are never reported on a dry weight basis color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight

Rutgers Organics Corporation

Client Sample ID: AGAC 1-2-7-6-09

GC/MS Volatiles

Lot-Sample #...: A9G070193-001 **Work Order #...:** LF5C31AA **Matrix.....:** AA
Date Sampled...: 07/06/09 13:00 **Date Received..:** 07/07/09
Prep Date.....: 07/10/09 **Analysis Date..:** 07/11/09
Prep Batch #...: 9195064
Dilution Factor: 2.5 **Method.....:** EPA-2 TO-14A

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	ND	0.50	ppb(v/v)
Bromodichloromethane	ND	0.50	ppb(v/v)
Bromoform	ND	0.50	ppb(v/v)
Carbon tetrachloride	ND	0.50	ppb(v/v)
Chlorobenzene	ND	0.50	ppb(v/v)
Dibromochloromethane	ND	0.50	ppb(v/v)
Chloroethane	ND	0.50	ppb(v/v)
Chloroform	ND	0.50	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.50	ppb(v/v)
Dibromomethane	ND	1.0	ppb(v/v)
1,2-Dichlorobenzene	**1.1**	**0.50**	**ppb(v/v)**
1,3-Dichlorobenzene	ND	0.50	ppb(v/v)
1,4-Dichlorobenzene	ND	0.50	ppb(v/v)
Dichlorodifluoromethane	ND	0.50	ppb(v/v)
1,1-Dichloroethane	ND	0.50	ppb(v/v)
1,2-Dichloroethane	ND	0.50	ppb(v/v)
cis-1,2-Dichloroethene	**1.7**	**0.50**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	0.50	ppb(v/v)
1,1-Dichloroethene	ND	0.50	ppb(v/v)
1,2-Dichloropropane	ND	0.50	ppb(v/v)
cis-1,3-Dichloropropene	ND	0.50	ppb(v/v)
trans-1,3-Dichloropropene	ND	0.50	ppb(v/v)
Ethylbenzene	ND	0.50	ppb(v/v)
Cumene	ND	1.0	ppb(v/v)
n-Propylbenzene	ND	1.0	ppb(v/v)
Styrene	ND	0.50	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	0.50	ppb(v/v)
Tetrachloroethene	**0.77**	**0.50**	**ppb(v/v)**
Toluene	ND	0.50	ppb(v/v)
1,1,1-Trichloroethane	ND	0.50	ppb(v/v)
1,1,2-Trichloroethane	ND	0.50	ppb(v/v)
Trichloroethene	ND	0.50	ppb(v/v)
Trichlorofluoromethane	ND	0.50	ppb(v/v)
1,2,3-Trichloropropane	ND	1.2	ppb(v/v)
1,3,5-Trimethylbenzene	ND	0.50	ppb(v/v)
Vinyl chloride	ND	0.50	ppb(v/v)
m-Xylene & p-Xylene	ND	0.50	ppb(v/v)
o-Xylene	ND	0.50	ppb(v/v)

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	98	(60 - 140)